AMENDMENTS TO THE CLAIMS

Claims 1-16 (Canceled)

Claim 17 (New) An analyzer device for analyzing at least one gas contained in a liquid, in particular a drilling liquid, flowing in a drilling pipe in an installation for extracting fluid from a subsoil, the device being of the type comprising:

- analyzer means for analyzing the or each gas; and

- sampling means for sampling at least a fraction of the or each gas and comprising at least one porous membrane member, said member comprising a support and possessing a first face in contact with the liquid flowing in the drilling pipe and a second face looking into a pipe connected to the analyzer means;

wherein said first face presents Vickers hardness greater than 1400 kgf/mm^2, in particular Vickers hardness lying in the range 1400 kgf/mm^2 to 1900 kgf/mm^2.

Claim 18 (New) A device according to claim 17, wherein the porous membrane member includes a coating covering the support over said first face.

Claim 19 (New) A device according to claim 18, wherein the coating is based on silicon carbide.

Claim 20 (New) A device according to claim 17, wherein said first face is also water- and oil-repellent.

Claim 21 (New) A device according to claim 20, wherein the wetting angle of water on said first face is greater than 120°.

Claim 22 (New) A device according to claim 20, wherein said first face includes fluorine-containing polymers incorporated by grafting.

Claim 23 (New) A device according to claim 17, wherein the first face of the membrane member that is in contact with the liquid is substantially plane.

Claim 24 (New) A device according to claim 17, further comprising regulator means for regulating the pressure in the pipe in register with the second face of the membrane member.

Claim 25 (New) A device according to claim 17, including a plurality of membrane members, with the second faces of said members opening out in succession to the pipe connected to the analyzer means.

Claim 26 (New) An installation for extracting fluids from the subsoil, the installation being of the type comprising a drilling pipe connecting at least one point of the subsoil to the surface, and a delivery pipe connected to the drilling pipe at the surface, the installation further comprising at least one device according to claim 17, and the sampling means of said device being mounted on a tubular element constituted by the drilling pipe or by the delivery pipe.

Claim 27 (New) An installation according to claim 26, wherein the first face of the membrane member in contact with the liquid is disposed substantially parallel to the long axis of the tubular element.

Claim 28 (New) An installation according to claim 27, wherein said first face in contact with the liquid is disposed in a wall of the tubular element.

Claim 29 (New) An installation according to claim 27, wherein said first face is disposed set back in a wall of the tubular element.

Claim 30 (New) An installation according to claim 29, wherein the tubular element includes a branch connection, and wherein said sampling means are placed in said branch connection.

Claim 31 (New) An installation according to claim 26, wherein the sampling means of said device are placed in said drilling pipe upstream from said delivery pipe.

Claim 32 (New) An installation according to claim 26, further comprising filter means downstream from the delivery pipe, and including two said analyzer devices, the respective sampling means of the two devices being placed respectively upstream and downstream from the filter means.